IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. Applicant 10/812,134 Rebecca Wright March 29, 2004

Filing Date :
Group Art Unit :
Examiner :

1711 Susan W. Berman

Docket No. : 3086.EEM Response Date 06 Septem

08 September 2007 ULTRAVIOLET-CURING WATERBORNE COATING

DECLARATION UNDER 37 C.F.R. § 1.132

Commissioner for Patents Alexandria, VA 22313-1460

Sir:

Title

I, JULIE DEWITT, hereby declare:

I am an inventor of the subject matter claimed in the subject application.

I have read and I understand the Office actions and references applied therein.

I understand that the Examiner has rejected the claims as either anticipated or obvious in view of patent WO 03/053728 and other cited references.

I requested viscosity and molecular weight analyses of the wetting agents sold under the tradenames Tego Rad and Tego Glide and am attaching the reports of those analyses to this Declaration. Included in the molecular weight report is an analysis of the silicone emulsion sold under the tradename Dow Corning 51, which is representative of the silicone emulsions used in my invention.

Referring to page 3, Figure 1, of the Gel Permeation Chromatography Report on molecular weight, it can be seen that the Mw of the Dow Corning 51 is 148,174, compared to molecular weights near 4000 for the Tego Glide and Tego Rad wetting agents. Referring to the Certificates of Analysis for the viscosities of Tego Glide and Tego Rad, and for Dow Corning 51, it can be seen that the viscosity for the Dow Corning 51 is in the range of 200,000 to 700,000 mPa.s; for the Tego Glide the viscosity is in the range of 150-400 mPa.s; and for the Tego Rad the viscosity is in the range of 350 to 900 mPa.s. One mPa.s is equivalent to one ops.

These are significant differences in viscosity and molecular weight, and these differences distinguish my invention from that disclosed in WO 03/053728. Moreover, these differences contribute to the properties of noise resistance, abrasion resistance, and ice release in my invention.

I further declare that all statements made herein based on individual knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willfully false statements and the like so made are punishable by a fine or imprisonment or both under 1001 of Title 18 of the United States Code and such willfully false statements may jeopardize the validity of the application or any patent issuing thereon.

aplin De With

Date: 06 September 2007

2

Page

100				ı a
3000	ŧ.	20	- 6	Š

DOW CORNING CORPORATION CENTRAL DISTRIBUTION WAREHOUSE CEDAR GROVE BUSINESS PARK 270 OMEGA PARKWAY, SUM 200 SHEPHERDSVILLE KY 40165

(800) 248-3481

(989) 496 697A

Certificate of Analysis 1 of 2 Fax(Ship-to: 1032294) 517-372-0511 Date Generated 03Ang2007 Delivery Number Isem Number Delivery Date 8604726035 000030 Sales Order Namber Item Number 25Jul2007 000030 397933 (1986)
Purchase Order Number PO Date 4500254938 (25/mi2007 Our Material 4021500 DOW CORNING(R) 51 ADDITIVE,175 KG (386 LB) drum

Fax: Ship-to: 1032394 Orality Assurance Department ASHLAND DIET (LANSING) COMPANY DIV ASHLAND INC 2011 TURNER STREET LANSING MI 48906-4054

Telephone:

Customer Material

Rotel 0004913834 Delivery Quantity

9.0

LQCA - BP000\$54

Shelf Life Expiration Date 14Jan2009 Date of Manufacture 245ui2007

Characteristic	Value	Unit of Measure	Lower Limit	
TARCOURT .	664000	cF	200060	760000
	80.3	%	77.0	82.0

ACHESON PO: 99919-CODE: 1904627

DLVY DATE: 14 AUG 2007 QTY: 4 DRUMS

This is no certify that the above designated material has been tented and did comply with the litted appointance (with listed exceptionar) when amplied in original container. The material is explore to the conditions listed on the Dow Corning involve. The stove is a copy of information on film. The lost appropriate and available for examination. This certificate is widdle subject as withing the reasonable containment. This certificate is widdle subject as withing the reasonable containment. This certificate is widdle subject as withing the reasonable containment. The certificate is widdle subject to a widdle for examination. This certificate is widdle subject to

Interest reference: 1925193

TOTAL P.01

Affar. Tales

Goldschmidt Chemical Corp.

914 East Randolph Road · Hopewell, VA 23860

Page: 1 / 1 27, Jul. 2007

Please reference

Delivery Order Customer Your Reference

ST-990131/6908-0-500/ QN ES37220983 Our Reference Batch

Ship-to

Batch: Material: ES37220983

TEGO RAD 2200 N

Qty. shipped:

0.000

Parameter	Method Limits		Value	Unit	
Viscosity 25°C	GM 0103 01	350 - 900	458	mPa.s	
Solid content	GM 0090 10	> ≈ 97.0	100.0	%	
Refractive index / 25°C	GM_0120_01	1,4390 - 1.4450	1.4420		

Our Specific test reports do not relieve you from the obligation to test the goods for your own intents and purposes.

This print-out is valid unsigned.

DR. M. WEIBELS - Supervisor Quality Control -

Phone: +492011732957 Fax:

+492011731895 Matthias.Weibels@degussa.com Email:

Page: 1 / 1 27. Jul. 2007

Goldschmidt Chemical Corp. 914 East Rendolph Road - Hopewell, VA 23860

Shîp-to

Please reference Delivery Order Customer Your Reference ST-940324/6113-0-500/ QN ES57108223 Our Reference Batch

Batch:

ES57108223

Material:

TEGO GLIDE 450

Qtv. shipped: 0.000

Parameter	Method Limits		Value	Unit	
Solid content	GM 0090 24	>= 93.0	96.9	%	
Colour to Gardner	GM 0140 02	<= 2	<1		
Refractive index / 25°C	GM 0120 01	1,4360 - 1,4400	1.4396	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Density / 25°C	GM 0110 01	1.010 - 1.040	1.024	g/ml	
Viscosity / 25°C	GM 0100 01	150 - 400	188	mPa.s	

Our Specific test reports do not relieve you from the obligation to test the goods for your own intents and purposes.

This print-out is valid unsigned.

DR. M. WEIBELS - Supervisor Quality Control -

Phone: +492011732957

+492011731895 Matthias.Weibels@degussa.com Fax:

Email:



ICI Paints Strongsville Research Center 16651 Sprague Road Strongsville, OH 44136 Phone: (440) 826-5318 Email: techdirect@lci.com Website: www.jcitechdirect.com

Gel Permeation Chromatography

Author/Analyst: Lynn Bender

Date: 8-15-07

Analyst: Mark Razzante

To: Julie DeWitt

Acheson Colloids Company

Log #:

0702148-50

cc: File

P. O. #:

99815

Subject: Tego Glide 450, Tego Rad 2200N and Dow #51

Objective: Determine the Molecular Weight Distribution (MWD) of the samples and compare the distributions.

Results Summary:

Fig. 1 is an overlay of the MWDs of the three samples. The distribution of the Dow #51 is trimodal. An old retain of the Dow #51 was also analyzed, and the distribution was essentially the same as this current lot (Fig. 2).

The GPC software can determine the relative % integration areas of the peaks in a distribution, in order to compare the relative % of material at a particular MW. Figs. 3 & 4, samples Dow #51 & Tego Rad, respectively, show how the chromatograms are integrated/segmented to provide the % areas. (MP is the MW at the apex of a peak.)

The table below gives the values of the relative % integration areas.

Sample	MP / %Area	MP / %Area	MP / %Area
Dow #51	438,602da / 23.29%	26,286da / 22.80%	917da / 53.91%
Tego Glide 450		4,014da / 68.68%	1,316da / 31.32%
Tego Rad 2200N	38,593da / 0.88%	4,353da / 82.13%	1,377da / 16.99%

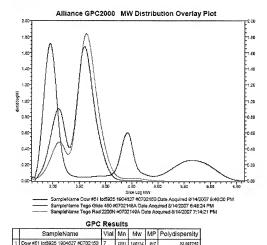


The Tego Rad 2200N has a small high MW hump which was reproducible and therefore real. This added high MW results in a higher Mw compared to the Tego Glide.

Experimental Method:

Instrument: Waters Alliance GPC2000: Iml/min THF @45°C/RI & Viscometer detectors Comm Set: Polymer Labs columns: guard + 2 mixed bed C's & 100A Calibration: PS standards from 2.4x10' to 266 dations

Note: Based on analytical and test methods conventionally used in the coatings industry, as indicated above, these results are accurate to the best of our knowledge. However, ICI Paints does not guarantee nor warrant the data or interpretations included in this report.



2247 2927 Figure 1

1597 148114 917

2699 4014

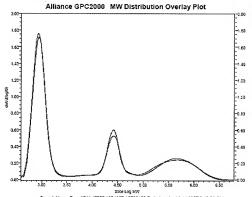
4949 4252

1.848295

1.880558

Tego Glide 450 #3702148A

Tego Rad 2200N #0702149A



SampleName Dow #51 lot5925 1904827 #0702150 Date Acquired 8/14/2007 8:40:20 PM
 SampleName Dow#51 #0301101 #0401555 A Date Acquired 8/8/2007 11:09:00 PM

GPC Results

	SampleName	Vial	Mn	Mw	MP	Polydispersity
3	Dow #51 fet5925 1904627 #0792150	7	1581	148114	917	92,597762
2	Dow#61 #0301101 #0401555 A	20	1539	155493	898	101.935825

Figure 2

GLIDDEN/ICI PAINTS GPC Analysis Report

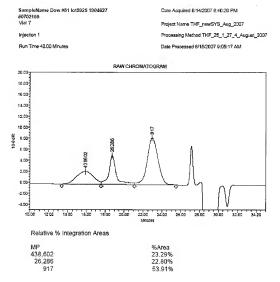
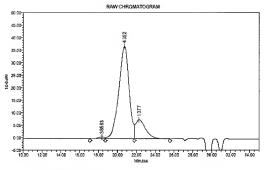


Figure 3

GLIDDEN/ICI PAINTS GPC Analysis Report





Relative % Integration Areas

MP	%Area
38,593	0.88%
4,352	82.13%
1.377	16.99%

Figure 4